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(54) METHOD FOR FINELY PULVERIZING HIGHLY WATER-ABSORBABLE RESIN

(57)Abstract:

PURPOSE: To realize water absorbing/discharging paint not obstructing the thin film properties and transparency relating to coating properties by finely pulverizing a highly water-absorbable resin in vacuum or dry gas and mixing the finely pulverized resin with a coating raw material.

CONSTITUTION: A highly water-absorbable resin such as an acrylic acid/alcohol copolymer or a sodium acrylate polymer is finely pulverized in vacuum or dry gas using mechanical impact force due to a crushing medium. further, attapulgit  $\{Mg_8Al_2Si_8O_{20}(OH)_{28}H_2O\}$  is added as a solid crushing aid to further finely pulverize the highly water-absorbable resin. The finely pulverized highly water-absorbable resin is mixed with a coating raw material to make it possible to realize water absorbing/discharging coating not obstructing the thin film properties and transparency relating to coating properties. Since the water absorbing speed of the highly water-absorbable resin is caused by the surface area of particles, a water absorbing or discharging speed can be markedly enhanced by finely pulverizing the particles.

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